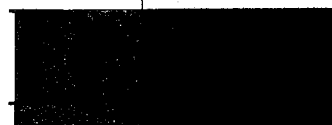




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PHOTOGRAPHIC INTELLIGENCE REPORT

NOSENKO SHIPYARD 444

NIKOLAYEV, USSR



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Declass Review by NIMA / DoD



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DATE MARCH 1967

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NOSENKO SHIPYARD 444

NIKOLAYEV, USSR

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SHIPYARD : NOSENKO SHIPYARD 444
LOCATION : NIKOLAYEV, USSR
GEO COORDS: 46-57N 031-59E

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KEY TO ANNOTATIONS ON FIGURE 1

1. MAYAKOVSKIY Class Fish Factory Ship (LOA approx 275').
Identification is based on the overall hull outline, length overall, position of the superstructure, bridge wings, and the rectangular opening in the main deck leading into the stern. 25X1
2. Floating crane.
3. Probable Barge (LOA approx 220').
This probable barge has the forward portion covered and slightly raised with a low superstructure near the stern. The center portion appears to have an open and a covered area. Two cylindrical-type objects are observed lying on their sides on the deck of the open area. The covered portion abuts the superstructure. This covering is not raised as is the forward area but appears to be flush with the sides.
4. MAYAKOVSKIY Class Fish Factory Ship alongside fitting-out quay (LOA approx 275').
25X1
5. Large floating crane.
6. MAYAKOVSKIY Class Fish Factory Ship (LOA approx 275').
25X1
7. MAYAKOVSKIY Class Fish Factory Ship (LOA approx).
Identification of the MAYAKOVSKIY Class Fish Factories at annotations 1, 4, 6, and 7 is based on the overall hull outline, position of the superstructure, bridge wings, and the rectangular opening or sternport aft.
25X1
8. Probable POLTAVA/PEREKOP Class Merchant Ship alongside fitting-out quay (LOA approx).
Identification is based on the distinctive split hold arrangement, position of the superstructure, and overall hull outline. A floating crane is working off the port beam of this vessel. 25X1

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9. UGRA Class AS alongside fitting-out quay (LOA approx 470'). Identification is based on the helicopter pad aft, a rounded bow rather than the "sawed-off" ramshorn bow of the DON Class AS, the position of the stack and superstructure, overall hull outline, AA guns mounted in line athwartships aft but not forward, and the position of the two lifeboats on the port and starboard side.

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10. Possible Helicopter Carrier (LOA approx 625').

11. Possible Helicopter Carrier (LOA approx 625').

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12. Probable Barge (LOA approx 160'). This barge may be a floating tank. Small openings are discernible topside and both ends of the barge are rounded.

13. LAMA Class AEM (LOA approx 370'). Identification is based on the forward well deck containing two turntables, the position and curved forward portion of the superstructure, and the overall hull outline. The mainmast and foremast appear to be in place. No crane booms are visible although the cabs are in place. The middle leading edge of the well deck is recessed toward the well. The usual LAMA well deck is configured as 2 straight edges athwartships.

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14. UGRA Class AS under construction (LOA approx 470'). Identification is based on the position of the probable superstructure and after deckhouse, overall hull outline, and length overall. The position of the probable after armament platform, the cavity for the stack, and the rounded bow also equate in appearance or location to those features on the UGRA.

25X1

15. Probable POLTAVA/PEREKOP Class Merchant Ship (LOA of completed section 460'). Identification is based on the distinctive split hold arrangement, the position of the superstructure, and the rough length ratio obtained between the two forwardmost sets of nearly completed hatches.

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16. Flooded floating dock.

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17. Unidentified Merchantman/Auxiliary under construction on building way (length of incomplete hull approx 445'). Four large rectangular openings are visible up through the last completed deck level. These may equate to cargo holds. Apparently only a small portion of the bow section remains to be placed on the forward end of the vessel; therefore, the length overall will not be appreciably longer. Large pre-assembled sections of this vessel are lying on the building way forward of the ship. For a large scale photograph and accompanying line drawing of this ship see Figure 2.

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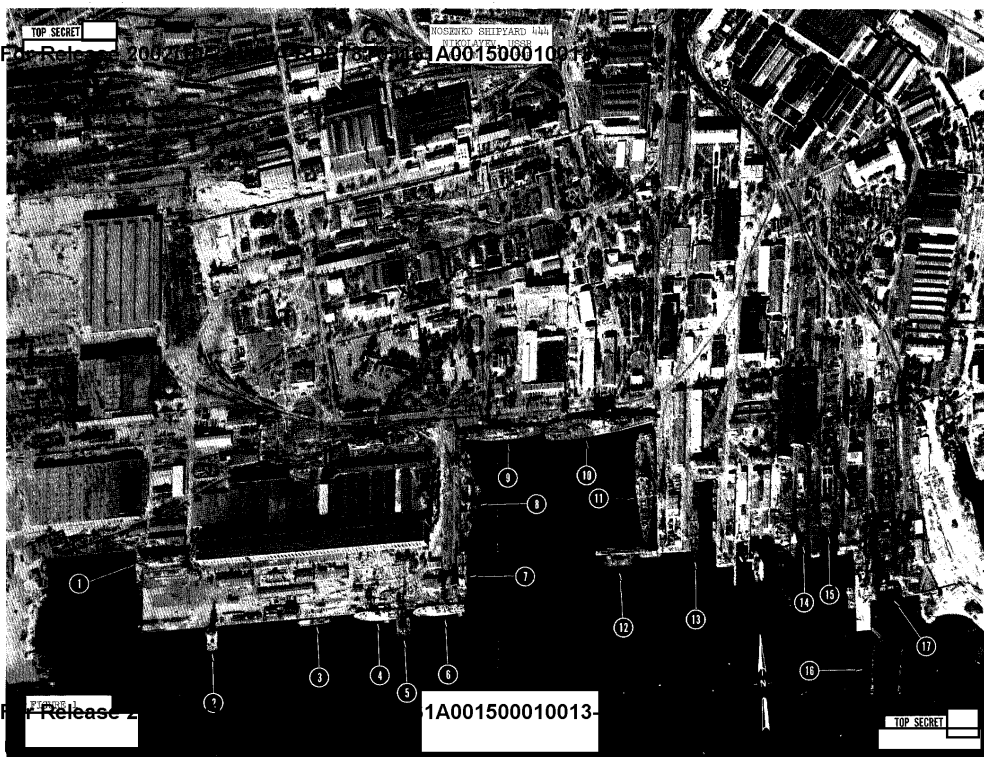
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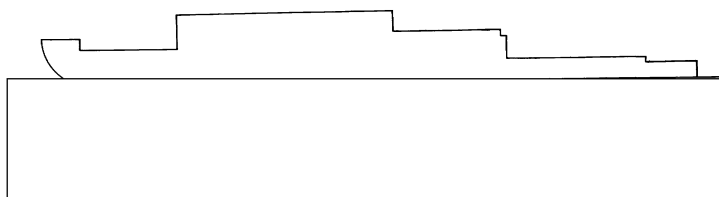
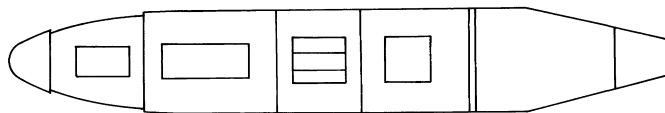


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UNIDENTIFIED MERCHANTMAN / AUXILIARY
NOSENKO SHIPYARD 444
NIKOLAYEV, USSR

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FIGURE 2

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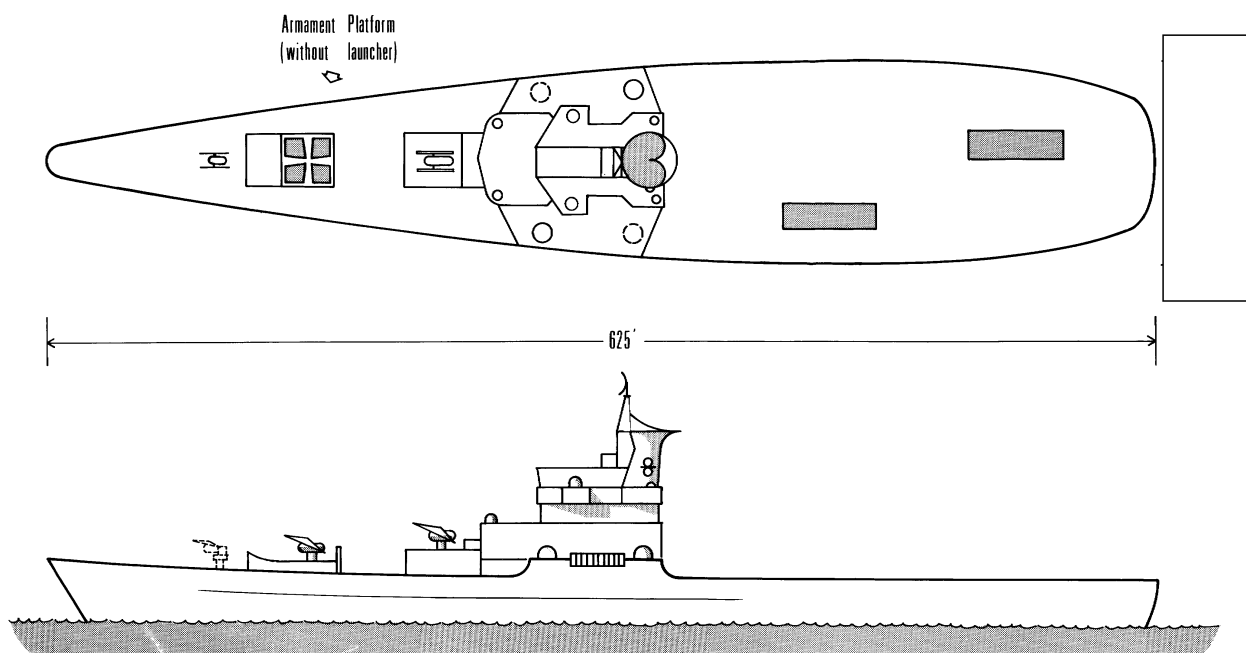
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POSSIBLE HELICOPTER CARRIER



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FIGURE 1

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APPENDIX

POSSIBLE HELICOPTER CARRIERS - ARMED WITH PROBABLE GUIDED MISSILES

I. GENERAL DESCRIPTION OF SHIP (ANNOTATIONS KEYED TO FIGURE 1)

10. Possible Helicopter Carrier alongside fitting-out quay (LOA approx 625'). This vessel, as well as the vessel at annotation 11 below, is characterized by a high, massive superstructure amidships, a large flat deck area aft, and two armament platforms forward. See Figures 3 and 4 of this report for larger scale photography and line drawings of these ships.

On the top of each armament platform is a "four-leaf clover" arrangement of holes measuring approximately [redacted] overall (see Figures 2 and 3). The overall dimensions of the forward platform are approximately [redacted] the forwardmost [redacted] appear to sweep upward. This upward sweep may possibly equate to a deflector to protect the after platform area from blast or heavy sea. No armament can be identified ahead of the forward platform. In the area between the forward and after platforms is a large opening in the deck measuring approximately [redacted] The after platform (just forward of the superstructure) appears to be slightly higher than the forward one. The dimensions of the after platform are approximately [redacted]

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25X1

The highest deck of the superstructure appears to rise four or more levels above the main deck. A single large stack rises above the after end of the superstructure. The width of the stack may be exaggerated by a possible smoke deflector around it. Shadows on the quay and imagery on the vessel indicate that a mast rises above the forward end of the stack. A possible barbette is observed on the starboard side at the after edge of the superstructure. No missile launchers are present on this ship and due to the scale of the photography no conventional armament or electronics can be identified.

An open flat deck area that begins immediately abaft the superstructure extends to the stern. The area of this open deck is roughly 28,000 square feet. [redacted]

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[redacted] An apparent opening in the deck, measuring roughly [redacted] is observed on the port side of the ship. The opening in the starboard side of the deck (near the stern) observed [redacted] now appears to be covered with low sheds. The deck appears to be covered with clutter that may be associated with construction.

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11. Possible Helicopter Carrier fitting-out alongside quay (LOA approx 625'). The gross features and dimensions of this vessel appear identical to the vessel observed at annotation 10 above. As this vessel has been fitting-out longer, more topside detail is in place.

A probable missile launcher is positioned within a five-sided enclosure approximately 40 feet before the center of the forward armament platform. It cannot be determined whether the probable launcher or enclosure is permanently installed in this position (see Figure 3). No armament is observed on the forward armament platform. However, a probable blast shield appears to be located along the after edge of the platform - a similar shield can be observed along the after edge of the launcher platform on the SVERDLOV Class CLG "DZERZHINSKIY". Unlike the vessel at annotation 10 above, the area between the fore and aft platforms on this vessel appears to be flush with the deck. The possible missile launcher observed on the armament platform nearest the superstructure [redacted] [redacted] is still in place and can now be evaluated as probable. The launcher appears to be rotated 90 degrees from the center-line of the ship on this imagery and the arms elevated to the vertical position.

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Small spherical images are positioned along the athwartships axis of the superstructure immediately behind the after armament platform. Imagery on the mast above the stack and shadow on the deck indicates the presence of a large radar. Extending from the port and starboard sides of the stack, in an apparent horizontal plane, are two possible antennae. Two possible spherical images appear to be placed above one another on the port side of the stack. Two slightly larger spherical images are positioned high on wings extending near the mid-portion of the superstructure. Possible armament can be observed near the after edge of the superstructure on the starboard side. A circular image is observed in the similar position on the port side.

The forward opening (portside) in the after deck is in the shadow of the superstructure; however, the after (starboard) opening can be seen. The dimensions of the after opening are roughly [redacted] A more accurate measurement of the apparent opening is difficult to obtain because of the clutter surrounding it.

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II. DETAILS OF MISSILE ARMAMENT

Unusual activity involving probable missile launchers associated with the first possible helicopter carrier was noted [REDACTED]

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FIGURE 5

Further analysis [REDACTED] in the quay area adjacent to the new class naval ship fitting-out revealed the presence of a possible missile launcher within an enclosure near the end of the quay (see Figure 5 below). Due to the attitude of the arms of the possible launcher, measurements are considered as only very approximate. The length of these arms was measured to be roughly 20 feet*. The arms of a probable launcher atop the aftermost armament platform were measured (with greater accuracy than the launcher on the quay) to be also approximately 20 feet. The forward armament platform was unoccupied (note the "four-leaf clover" pattern of holes in the top of the platform). On the foredeck before the forward armament platform imagery is visible that might equate to a possible missile launcher. This possible launcher was not measured due to tenuous imagery.

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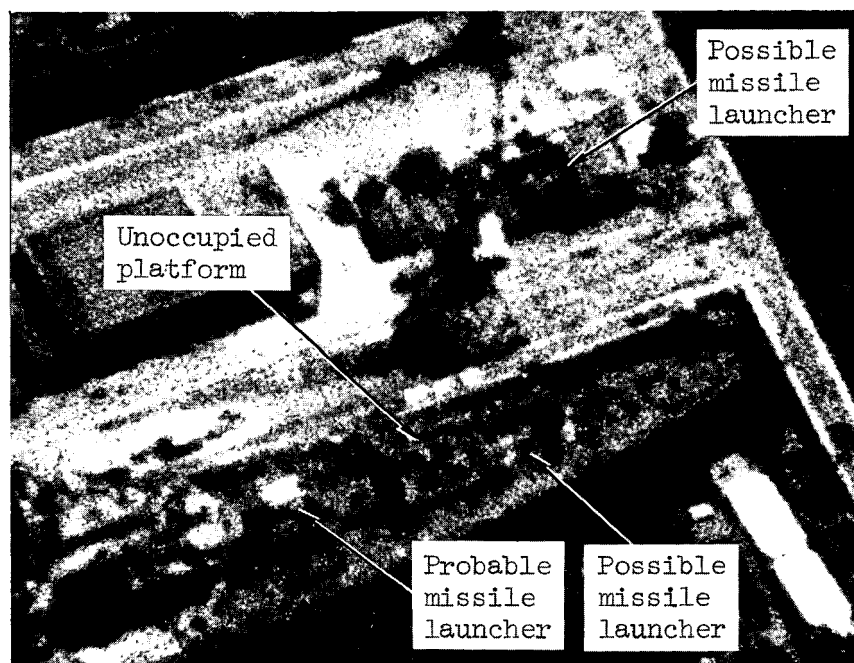


Figure 5. [REDACTED]

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- * The length of the launcher arms of the SA-N-1 system - employed on the KASHIN Class DLG, KYNDA Class DLGM, and the KOTLIN Class DDG - have been measured to be approximately [REDACTED] in length.

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FIGURE 6

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Imagery [] of the same vicinity again indicated the presence of a probable missile launcher on the quay. Better end-points enabled a more accurate measurement than on previous imagery. The length of the probable launcher arms was measured to be approximately []

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On the after armament platform a probable missile launcher is again observed. However, measurements were precluded because the probable arms were elevated to the vertical position. The after launcher also appeared to be trained to port at right angles to the centerline of the ship. The forward armament platform is again unoccupied. The "four-leaf clover" arrangement of holes can no longer be seen. The probable launcher in front of the forward armament platform is clearly visible. The arms of this probable launcher were measured to be approximately 15 feet in length.

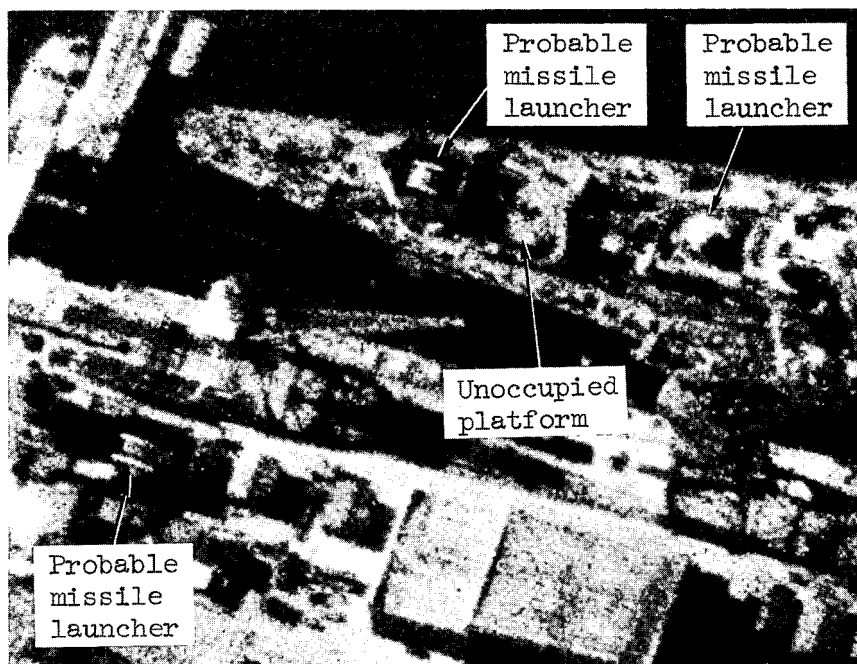


Figure 6 []

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Observations of missile launchers on or near the first ship are summarized below:

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Quay Area	Possible launcher - arms roughly 20'	Probable launcher - arms approx 	
Ahead of forward platform	Possible launcher - not measured	Probable launcher - arms approx 15'	
Forward launcher	Unoccupied - "clover-leaf" pattern visible	Unoccupied - no "clover-leaf" visible	
After launcher	Probable launcher - arms approx 20'	Probable launcher - not measured - at right angle to ship's centerline - arms elevated straight up	

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REFERENCE

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DOCUMENTS

CIA/PIR-77077, Nosenko Shipyard 444, Nikolayev, USSR

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CIA/PIR-77124, Nosenko Shipyard 444, Nikolayev, USSR

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DIA PC 230/2-1, Naval Ships of the USSR, 1 January 1964 (SECRET)

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